

#### ABSTRACT OF THE DISCLOSURE

An NMR probe for high-temperature NMR measurements includes tubular heating means mounted respectively immediately below and immediately above an area to be measured. A sample tube is inserted inside the tube formed by the two heating means. A sample placed in the sample tube is heated. Heat from the two heating means is transmitted to the sample via at least one heat transfer pipe of a good thermal conductivity. The heat transfer pipe is disposed inside the tube of the heating means.